

**BEFORE THE PUBLIC UTILITIES COMMISSION  
OF THE STATE OF CALIFORNIA**



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Order Instituting Rulemaking to  
Implement the California Renewables  
Portfolio Standards Program.

) Rulemaking 04-04-026  
) (Filed April 22, 2004)  
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Order Instituting Rulemaking to Continue  
Implementation and Administration of California  
Renewables Portfolio Standards Program.

) Rulemaking 06-05-027)  
) (Filed May 25, 2006)  
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**COMPLIANCE FILING: UNREDACTED VERSION OF  
2006 RENEWABLE PORTFOLIO STANDARD PROCUREMENT  
PLAN OF SAN DIEGO GAS & ELECTRIC COMPANY (U 902 E)**

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May 22, 2007

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Pursuant to the Rules of Practice and Procedure of the California Public Utilities Commission (the “Commission”), the *Administrative Law Judge’s Ruling on San Diego Gas & Electric Company’s Motions to File Under Seal* (the “ALJ Ruling”), issued April 30, 2007, the subsequent grant of a one-week filing extension by ALJ Mattson and the May 15, 2007, e-mail of ALJ Mattson directing parties to re-file in unredacted form information previously filed under seal, San Diego Gas & Electric Company (“SDG&E”) submits herewith the attached unredacted version of its 2006 Renewable Portfolio Standard (“RPS”) Procurement Plan (the “2006 Plan”).<sup>1/</sup>

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<sup>1/</sup> SDG&E has not included the various attachments to the 2006 Plan, as those documents did not contain redactions.

In the ALJ Ruling, the Commission considered two motions filed by SDG&E, each of which sought protection for the same information contained in SDG&E's 2006 Plan. The first motion was filed in December, 2005, concurrent with the filing of the initial draft of SDG&E's 2006 Plan (the "Draft 2006 Plan"). The second motion was filed in July, 2006, concurrent with the filing of the further amended version of SDG&E's 2006 Plan (the Further Amended 2006 Plan"). The Draft 2006 Plan and the Further Amended 2006 Plan contain identical redactions.

Because the Commission had not ruled upon SDG&E's December, 2005 confidentiality motion at the time it filed its Further Amended 2006 Plan in July, 2006, SDG&E assumed that the information for which confidential treatment had originally been requested – and which was redacted to an identical extent in the Further Amended 2006 Plan – would be treated as confidential pursuant to Public Utilities Code § 583, since the Commission had not ordered that the information be disclosed.<sup>2/</sup> The Commission, however, instructed SDG&E to file a second motion requesting confidential treatment of the information redacted from the Further Amended 2006 Plan. SDG&E complied with this directive, thus placing before the Commission two motions seeking protection of identical data.

The Commission considers and rejects both motions in the ALJ Ruling, and suggests that "now that 2006 is over, it may be that SDG&E's data are no longer confidential."<sup>3/</sup> While the ALJ Ruling grants SDG&E authority to file an amended motion in order to provide further justification for confidential protection of the data

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<sup>2/</sup> See, P.U. Code § 583 ("No information furnished to the commission by a public utility . . . except those matter specifically required to be open to public inspection by this part, shall be open to public inspection or made public *except on order of the commission* . . .") (emphasis added).

<sup>3/</sup> ALJ Ruling, p. 5.

contained in its 2006 Plan,<sup>4/</sup> SDG&E has concluded that the data at issue in the 2006 Plan is stale, that release of the data at this point would not cause harm to utility ratepayers and therefore that protection of the data is no longer required. Solely for these reasons, SDG&E consents to disclosure of this data and therefore submits as an attachment hereto an unredacted version of its 2006 Plan with formerly redacted information highlighted in gray.<sup>5/</sup>

Respectfully submitted this 22<sup>nd</sup> day of May, 2007,

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<sup>4/</sup> Id. at pp. 5, 6.

<sup>5/</sup> SDG&E has attached the Further Amended Version of its 2006 Plan (which is the final filed version of the 2006 Plan). The redactions contained in this version of the 2006 Plan were identical to those contained in earlier versions of the 2006 Plan.

# ATTACHMENT

*Unredacted Version of  
2006 RPS Procurement Plan*

Order Instituting Rulemaking to Continue Implementation and Administration of California Renewables Portfolio Standards Program.	) ) ) ) )	Rulemaking 06-05-027 (Filed May 25, 2006)
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In accordance with the June 14, 2006, letter from Sean Gallagher, Director of the Energy Division of the California Public Utilities Commission (the “Commission”), granting San Diego Gas & Electric Company (“SDG&E”) leave to further amend its short-term Renewable Portfolio Standard (“RPS”) procurement plan for 2006 (“Plan”), draft request for offers (“draft RFO”) and proposed form Power Purchase Agreement (“Form PPA”), the June 16, 2006, e-mail from Susannah Churchill, Policy Analyst with the Energy Division, requesting documentation of all revisions made to the Plan, draft RFO and Form PPA since December 22, 2005, and the June 23, 2006, letter from Steve Larson, Executive Director of the Commission, extending the deadline for submission to July 10, 2006, SDG&E hereby submits its further amended Plan,<sup>1/</sup> further amended draft RFO and further amended Form PPA. In addition, SDG&E provides in Exhibit 1 hereto redlined versions of the Plan, draft RFO and Exhibits to the Form PPA<sup>2/</sup> marked to show revisions from the December 22, 2005, version. Exhibit 2 hereto contains a summary of all revisions to the Plan, draft RFO and Form PPA made since December 22, 2005.

<sup>2/</sup> The Form PPA Master Power Purchase & Sale Agreement itself does not appear in Exhibit 1, as this document has not been revised. Only the Exhibits to this document have been amended.



## **I. INTRODUCTION AND BACKGROUND**

In the Assigned Commissioner and Administrative Law Judge's Ruling Requiring Submission of RPS Procurement Plans, Draft Requests for Offers, and Transmission Ranking Cost Reports for 2006, dated November 9, 2005 ("the ACR"), the California Public Utilities Commission (the "Commission") established a schedule for submission of 2006 short-term RPS procurement plans and set forth certain elements that must be included in all 2006 RPS procurement plans (and draft RFOs, as appropriate) in order to improve the comparability of the utilities' plans and to increase consistency between short-term and long-term RPS planning. Specifically, the Commission directed the utilities to address the following topics:

1. Analysis of transmission issues related to the 2006 plans, including:
  - a. Lessons learned from the inclusion in 2005 of delivery to any point in the CAISO control area and of bids having curtailability as an attribute;
  - b. Discussion of any needed transmission upgrades, not yet completed, that will affect 2006 RPS procurement; and
  - c. Discussion of any transmission issues that may affect 2007 planning.
2. Express terms in RFOs allowing bids having curtailability as an attribute and bids proposing delivery at any point in the CAISO control area.
3. Analysis and justification of any proposed contract terms that would become effective upon implementation of CAISO market redesign.
4. Analysis of lessons learned from 2005 solicitations with respect to other contract terms, including but not limited to bid deposits, notification of rejected bidders, and the timing and length of negotiations with short-listed bidders, with discussion of any proposed changes.
5. Proposals and discussion of a possible firm deadline for submission of contracts for Commission approval.

6. Analysis and discussion of IPTs for 2006 that are greater than the 1% increment required by statute, as a margin of safety for meeting the 2010 RPS goals. The analysis should be based on experience with RPS solicitations to date; the utilities' long-term plans; transmission planning; resource availability estimates; and any other relevant experience. Based on prior comments in this proceeding, we the utilities should use a presumptive IPT for 2006 of 1.2%. If relevant, a utility may propose a different IPT for 2006 and present an analytic justification for using that IPT rather than a 1.2% IPT.
7. Analysis of RPS-eligible renewable generation resources that are likely to be available by 2010 and could be acquired by solicitation in 2006
  - a. In the utility's service territory; and
  - b. Outside the utility's service territory.
8. Discussion of specific plans for procuring electricity from repowered wind projects, including but not limited to:
  - a. Repowered wind resources likely to be available in 2006;
  - b. Impediments, if any, to procuring in 2006 at least 50% of the repowered wind resources likely to be available; and
  - c. Relationship of 2006 plans for repowered wind resources to goals for repowered wind resources by 2010.
9. Any other issues emerging from 2006 planning that may have an impact on the utility's ability to meet the 2010 goals.

In D.06-05-039, the Commission directed SDG&E to make certain revisions to its Plan, draft RFO and Form PPA, including the following:<sup>3/</sup>

- (i) State SDG&E's incremental procurement target for 2006;
- (ii) Delete the reservation of the right to amend its RFO and EEI Agreement prior to issuance;
- (iii) Make its expectation clear regarding who pays the transmission costs, or if that is negotiable, and how out-of-service territory bids will be evaluated;

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<sup>3/</sup> D.06-05-039, *mimeo*, pp. 35, 47, 49 and 63.

- (iv) Revise the term “Scope of Work” to “Scope of Request” consistent with the reference to Section 1.0;
- (v) Provide copies of required forms (*i.e.*, credit application, offer response form, etc.) with amended plan;
- (vi) Clarify credit/security requirements;
- (vii) Amend the PPA to highlight good faith/fair dealing/reasonableness requirements;
- (viii) Highlight environmental and other goals of the Legislature in adopting the RPS legislation.

In accordance with D.06-05-039, SDG&E submitted an amended Plan, draft RFO and Form PPA on June 9, 2006, to comply with the Commission’s above-referenced directives. In addition, SDG&E made limited additional edits to correct typographical errors; ensure consistency in terms used throughout the documents; update information related to RPS-eligible renewable resources that are likely to be available by 2010 and could be acquired in 2006 (see Section 7 herein); to clarify that SDG&E will comply with the direction provided by the Commission regarding integration costs (see Section 2 herein); to clarify that bidders will be required to comply with resource adequacy (“RA”) requirements established by the Commission and the CAISO and to confer RA attributes (see RFO, Section 1.0; Form PPA); and to note that the Commission has issued several RPS decisions in addition to D.03-06-071 and D.04-06-014 (see RFO, Section 5.0). Finally, SDG&E described the draft RFO to be issued in 2006 in order to continue its renewable procurement efforts. The RFO will solicit Power Purchase Agreements

(“PPA”) with resources located anywhere in California<sup>4/</sup> and/or ownership options from renewable developers that can locate anywhere in SDG&E’s service area or the Imperial Valley area.

Subsequent to SDG&E’s June 9, 2006, filing of its amended Plan and related documents, SDG&E was granted leave by the Energy Division to make a limited number of further amendments to its Plan, draft RFO and Form PPA. In an e-mail dated June 16, 2006, the Energy Division directed SDG&E to also provide redlined versions of the Plan, draft RFO and Form PPA marked to show changes from the original December 22, 2005, version of the Plan and related documents, as well as a listing of revisions made to each document and the justification for each revision. The original filing deadline of June 23, 2006, was extended to July 10, 2006 by the Executive Director. Accordingly, SDG&E hereby provides the following:

SDG&E’s further amended draft RFO is attached as Appendix A. Section 12 of the draft RFO (Credit Terms and Conditions) has been amended to add a bid deposit and establish a timeline for submission of the bid deposit. The draft RFO has also been amended to update the Commission-approved RFO issuance date, to add a provision stating that SDG&E will treat all respondents fairly and equally and will evaluate all offers in good faith, and to reflect that SDG&E has no preferred eligible renewable resource or resource stack.

SDG&E’s further amended Form PPA is attached as Appendix B. The Exhibits to SDG&E’s Form PPA have been amended in the following respects: The Cover Sheet has been amended to (i) clarify the definition of “Force Majeure;” (ii) clarify that all

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<sup>4/</sup> SDG&E will also accept offers from facilities outside of California, provided that deliveries comply with Public Utilities Code § 399.6.

Resource Adequacy attributes established by the CAISO are part of the product being delivered to SDG&E; (iii) add the requirement that seller register with the California Climate Action Registry (“CCAR”), if required by the Commission; (iv) add a requirement to track renewable energy credits using WREGIS, when available; (v) include a Development Fee from the effective date of the Agreement until additional security is required after the conditions precedent have been met; and (vi) insert language relating to SEC financial accounting rule FIN 46, in case of financial consolidation.

In addition, the Confirmation Letters (Unit Firm, Intermittent As-Available, and Non-Intermittent As-Available) have been amended to (i) require the seller to meet certain obligations (*i.e.*, milestones) prior to all conditions precedent being met in order to enhance project viability (note: the Development Fee referenced above will be used to pay liquidated damages for failing to meet any such milestone obligations); (ii) insert a date by which the Commission Approval condition precedent is either satisfied or waived; (iii) insert a placeholder for seller to sell test energy to buyer pre-commercial operation; and (iv) list the required milestones. Finally, the existing Exhibits D-F to the Form PPA have been re-lettered E-G to reflect addition of a new Exhibit D, which addresses the Resource Adequacy attributes from the project.

In accordance with the direction provided by the Energy Division, redlined versions of the Plan, draft RFO and Exhibits to the Form PPA<sup>5/</sup> marked to show revisions from the December 22, 2005, version are attached hereto as Exhibit 1. In addition, Exhibit 2 hereto contains a summary of all revisions to the Plan, draft RFO and Form PPA made since December 22, 2005.

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<sup>5/</sup> The Form PPA Master Power Purchase & Sale Agreement itself does not appear in Exhibit 1, as this document has not been revised. Only the Exhibits to this documents have been amended.

## **II. SDG&E FORECAST OF COMPLIANCE WITH ANNUAL PROCUREMENT TARGETS**

SDG&E's Annual Procurement Target ("APT") for 2006 is 741,467 MWH.

SDG&E projects that it will procure a total of 1,046,887 MWH of renewable energy and exceed its APT for 2006, assuming that all current resources deliver as contracted. Table 1 below sets forth SDG&E's projected incremental purchases for 2006 and its standing versus its 2006 Incremental Procurement Target ("IPT"). Assuming that all sellers deliver as contracted, SDG&E expects to procure 440,507 MWH of incremental eligible renewable energy in 2006. SDG&E anticipates that it will exceed its 2006 IPT of 160,015 MWH and will therefore bank any surplus for future APT or IPT shortfalls.

**Table 1: Projected Incremental Purchases vs. IPT**

	<b>MWH</b>
<b>2006 IPT</b>	160,015
<b>2006 Incremental Procurement</b> (contracted)	440,507
<b>2006 Excess Incremental Procurement</b> (estimated)	280,492

### **III. SDG&E'S 2006 SHORT-TERM RENEWABLE RESOURCE PLAN**

SDG&E continues to move aggressively toward the accelerated goal of 20% by 2010. SDG&E plans to utilize flexibility mechanisms allowed under the RPS program, issue a competitive solicitation and pursue ownership opportunities in order to achieve this objective. SDG&E intends to evaluate a number of ownership opportunities in the 2006 RFO including turnkey development and PPAs with ownership options post commercial operation. SDG&E intends to evaluate ownership opportunities in the 2007 to 2010 timeframe in this RFO process. SDG&E will evaluate each opportunity in order to ensure that ownership is cost-effective when compared with PPAs, in accordance with guidelines previously established by the Commission.

To the extent it is necessary to do so, SDG&E will avail itself of the flexibility mechanisms permitted under the RPS program, including: (1) the ability to sign bilateral agreements; (2) the ability to bank purchases in excess of the IPT; and (3) the ability to borrow, if necessary, from the bank to make up for purchase shortfalls.

SDG&E anticipates that it may seek approval for bilateral renewable contracts with developers who were unable to participate in the previous RFO solicitation and who are unable to wait until the next RFO solicitation. SDG&E is mindful that bilateral

resources must be cost-effective when compared against projects that bid into past RFO solicitations. SDG&E’s ability to consider agreements with these parties will widen the scope of resources available to SDG&E. To the extent that an unsolicited offer complies with RPS program requirements, fits within SDG&E’s resource needs, is competitive when compared against RFO offers and provides benefits to SDG&E customers, SDG&E will pursue such an agreement. As directed by D.03-06-071, no Supplemental Energy Payments shall be used for bilateral agreements. SDG&E will brief its Procurement Review Group (“PRG”) prior to undertaking substantial negotiations with any party making an unsolicited offer.

The ability to bank excess purchases was established in D.03-06-071. SDG&E intends to use this flexibility mechanism and to bank its surpluses accrued in 2006. SDG&E has aggressively contracted for renewable resources and has exceeded its IPT in prior years. SDG&E follows the CPUC’s methodology and banks its surplus purchases for use in future years for an unlimited period. Table 2 sets forth SDG&E’s estimated purchases in excess of its 2006 APT and the estimated balance in SDG&E’s Renewable Energy Credit (“REC”) bank as of the close of 2006.

**Table 2: SDG&E REC Bank**

	<b>MWH</b>
<b>REC Bank Balance at end of 2003</b>	255,540
<b>2004 Surplus</b>	225,676
<b>2005 Surplus</b> (estimated)	223,901
<b>2006 Surplus</b> (estimated)	280,492
<b>REC Bank Balance at end of 2006</b> (estimated)	985,608



Although SDG&E fully expects its resources to deliver as contracted, in the event one or more resources fail to deliver and SDG&E is short of its APT or IPT, SDG&E will borrow from its REC bank as necessary in order to comply with purchase minimums.

#### **IV. SDG&E'S PROPOSED REQUEST FOR OFFERS**

SDG&E intends to issue an RFO in 2006 seeking additional offers in accordance with all RPS requirements established by the Commission and the California Energy Commission, ("CEC"). The RFO will solicit bids from all technologies of renewable projects that can interconnect anywhere in California, as well as outside of California provided that the renewable project located outside the State meets the requirements set forth in PUC Code Section 399.6.

Attached as Appendix A hereto is the amended RFO that SDG&E plans to issue for its 2006 RPS program solicitation.<sup>6/</sup> SDG&E has also included as Appendix B the Edison Electric Institute Agreement ("EEI Agreement") that SDG&E intends to append to the RFO. The RFO will solicit capacity and energy services from repowered, upgraded or new facilities. Products may include unit firm or as-available deliveries starting in 2007, 2008, 2009 or 2010.

SDG&E intends to solicit bids from renewable facilities that meet the requirements for eligible facilities as specified in SB 1078 and as established by the CEC. The 2006 RFO allows sellers to offer renewable products anywhere in California and SDG&E will evaluate all resources on an equal basis. SDG&E will evaluate each offer and include in its overall evaluation criteria any benefits associated with reliability, RMR or resource adequacy. SDG&E's ability to procure from certain areas within California

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<sup>6/</sup> See, D.06-05-039, *mimeo*, p. 84, Ordering Paragraph 2 (b).

could be impacted by planned transmission additions, the lack of which severely impacts SDG&E's ability to contract for resources in areas where transmission constraints and congestion are expected to exist, including resources that may locate in the Crestwood area of San Diego, the Imperial Valley and Tehachapi areas.

SDG&E's goal has been to develop and maintain a diversified renewable portfolio that best fits SDG&E's resource needs. The RFO supports SDG&E's goal by promoting a renewable mix that is wide-ranging in technology types and that allows SDG&E to pursue a combination of both power purchase, and ownership options including turn-key and joint venture. Significant requirements of the RFO include:

- (i) Respondents are required to satisfy all requirements established by the CPUC and CEC, for participation in the RPS Program. Resources must be certifiable by the CEC as an eligible renewable resource. Any purchases entered into between respondents and SDG&E will be subject to the RPS requirements established by the CPUC and eligibility requirements specified by the CEC.
- (ii) All offers shall be contingent upon respondents ability to obtain Public Goods Funds ("PGF") to the extent such funding is necessary.
- (iii) Respondents must be poised to sign an agreement with a term of at least ten, fifteen or twenty years in substantially the form of the EEI Master Power Purchase and Sales Agreement. Offers for any other contract duration, including terms of less than ten years, shall be considered at SDG&E's discretion and any resultant agreement shall be subject to CPUC approval.

The evaluation criteria set forth in the RFO is consistent with the directives contained in D.03-06-071, D.04-06-013 and D.04-07-029. Bids will be initially ranked based on the all-in bid price and transmission costs. Best fit and integration costs shall be considered in context of SDG&E's entire portfolio and may result in RMR benefits.

SDG&E will use production cost modeling to evaluate least-cost best-fit ("LCBF") and integrations. SDG&E will also evaluate the risk of congestion costs for

offers received. In addition, bids having curtailability as an attribute will be evaluated as part of the LCBF analysis. Final evaluation results will include a compilation of the above mentioned associated costs/benefits. Qualitative factors will also be used as tie-breakers on offers of similar cost and include (in no particular order of preference):

- a) Benefits to minority and low income areas
- b) Resource diversity
- c) Environmental stewardship, which should include the CPUC Water Action Plan<sup>7</sup>
- d) Ability to advance schedule
- e) Technology and operational flexibility
- f) Reliability
- g) Development risk
- h) Financing plan
- i) Corporate capabilities, credit, and proven experience

SDG&E may utilize outside consultants to perform analysis and to provide overall support for the solicitation. In addition SDG&E will utilize an Independent Evaluator (“IE”) for the 2006 RFO. The IE will provide an independent review of SDG&E’s RFO process and will be involved in the review and development of evaluation criteria, pre-screening, production cost modeling efforts, short-listing and final selections. In addition, the IE will participate in PRG meetings and will submit a final report on its findings to SDG&E. SDG&E intends to include the IE’s final report as part

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<sup>7/</sup> The CPUC Water Action Plan, adopted December 15, 2005, sets forth Commission goals, including educating water industry stakeholders regarding policies and practices which reduce water and energy consumption, achieving a 10% reduction in energy consumption by the utility by the end of 2008 and reduction in greenhouse gas emissions.

of its advice letter filing(s) seeking Commission approval of any contracts that result from this RFO process. To the extent the IE's report contains confidential information a redacted version of the report will be made available to the public. The intent is to ensure free and open communication between the IE and CPUC, as well as a fair and transparent process that the PRG can affirm. SDG&E is committed to conducting an open and transparent solicitation, and ensuring a fair, reasonable and competitive process.

SDG&E will brief its PRG on a periodic basis during the course of the solicitation and will seek approval of any agreement resulting from the RFO via the Commission's advice letter filing process.

## **V. RESPONSES TO QUESTIONS CONTAINED IN ACR**

### **1. Analysis of transmission issues related to the 2006 Plan**

Deliveries currently under contract with SDG&E for 2006 are not impacted by the need for transmission upgrades. SDG&E's ability to meet the 20% renewable goal by 2010 is, however, challenged by the anticipated *cost* of transmission access.<sup>8/</sup> While SDG&E may be able to procure resources in other parts of California without new transmission being built, the cost of delivering that energy to SDG&E's customers will rise as congestion and other related factors are taken into account. SDG&E anticipates that it will gather additional information related to congestion issues from the offers submitted in response to its 2005 RFOs. Offers from historically congested or likely to be congested areas will be evaluated for impacts of congestion and transmission upgrade

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<sup>8/</sup> *Physical access* to transmission is not an issue under the CAISO's non-discriminatory competitively-based open-access transmission rules. Physical access is always possible provided transmission users are willing to pay the marginal cost of obtaining such access. Hence, it is the *cost* of such access that is the relevant concern, and whether the cost will render either access or renewable development uneconomic.

costs. If congestion and transmission upgrade costs are substantial, they will adversely affect the relative cost-effectiveness of some renewable resource projects. If construction of both new transmission and upgrades to existing transmission systems cannot be achieved, SDG&E's ability to meet its 2010 RPS goals in the most cost-effective manner may be undermined. More information relevant to this issue will be available once evaluation and analysis of the 2005 offers is completed.

**2. Express terms in RFOs allowing curtailability as an attribute and proposing delivery at any point in the CAISO control area**

SDG&E's 2006 RFO will allow respondents to offer delivery at any point within the CAISO control area as well within the Imperial Valley area. As part of the LCBF analysis used to evaluate offers received through an RFO solicitation, SDG&E's procurement group will analyze the impact of congestion costs and line losses, whether the offers contemplate contract delivery points inside or outside the SDG&E service territory. The contract delivery points for each offer will be identified and the impact of delivering the energy to SDG&E's Load Aggregation Point ("LAP") will be considered.

Where the contract delivery point is outside the CAISO control area or at a CAISO boundary point with another control area, SDG&E, as the buyer, assumes responsibility for the costs of congestion between the contract delivery point and the SDG&E LAP, as long as the all-in cost of the resource is cost effective under the LCBF analysis. Where the contract delivery point is at the SDG&E LAP, the seller assumes most if not all of these costs as long as the all-in cost of the resource is cost effective under the LCBF analysis. Thus the decision as to where the contract delivery point will be depends upon the respective expectations of the buyer and the seller regarding the costs of congestion over the life of the contract.

For example, if the seller expects the cost of congestion to be relatively low and the buyer expects these costs to be high, the contract delivery point would logically be at the utility's LAP. If both buyer and seller expect these costs to be high, then it will be necessary to negotiate a contract price and contract delivery location that balances the risks and rewards between the parties. In this situation the contract price would logically be lower if the contract delivery point was closer to the seller's generating facility and higher if the contract delivery point was at the utility's LAP.

With regard to curtailability, because some renewable resources, such as wind and solar, have relatively low variable operating cost and an intermittent fuel source, SDG&E expects that these resources will have an advantage over resources with high variable operating costs and that they will operate more often and have a lower likelihood of being curtailed when there is congestion. Curtailments will be directed to resources with higher operating costs. Other renewable resources, such as landfill gas, biomass and geothermal, where operating costs are higher, may be subject to congestion/curtailments to a greater extent. Only a few bidders from the 2005 RFO proposed curtailability as an option; SDG&E is analyzing the feasibility versus cost for those curtailments. However, in the event any bid received in future solicitations includes an offer to curtail, the value of this attribute, related to the particular renewable technology and operating profile, will be considered in the LCBF analysis.

In addition, the cost to integrate renewables into SDG&E's resource portfolio will be evaluated using a production cost model. The anticipated growth in the amount of intermittent renewable resources, such as wind and solar, within the CAISO control area will increase the variability in hour-to-hour and minute-to-minute energy production.

During off-peak periods, this “must take” renewable energy may exacerbate minimum generation (“over-generation”) conditions. These operating conditions may require the CAISO to commit larger quantities of dispatchable resources (*e.g.*, more operating reserves, more regulation resources) than has historically been required. SDG&E will include costs adopted by the CPUC for this element of the analysis. SDG&E’s LCBF analysis will also consider remarketing of renewable energy to other entities.

**3. Analysis and justification of any proposed contract terms that would become effective upon implementation of CAISO market redesign**

SDG&E is proposing a new contract term for the 2006 RFO solicitation that would become effective upon implementation of the CAISO market redesign. The new contract term pertains to the “delivery point.” If a generator is outside of SDG&E’s service territory but within SP-15, SDG&E’s contract template would include the following delivery point language:

"In the event of a change in the CAISO Tariff that impacts the trading point or trading rules for SP-15 or in the event the Delivery Point is otherwise modified by the CAISO, the “Delivery Point” shall be a valid scheduling point in SP-15 that is either:

- a) The Buyer’s load aggregation point, if defined by the CAISO; or
- b) If a Buyer’s load aggregation point is not defined by the CAISO, the CAISO-defined trading hub designated by Buyer as most closely representing Buyer’s bundled customer load."

The proposed contract term is intended to reflect the potential change in the definition of the “delivery point” by the CAISO.

**4. Analysis of lesson learned from 2005 solicitations**

Bids in response to SDG&E's 2005 RFO were submitted on November 16, 2005. SDG&E has not completed its evaluation of the bids submitted and is therefore unable to provide any lessons learned at this time.

**5. Proposal and discussion of a possible firm deadline for submission of contracts for Commission approval.**

SDG&E does not support the imposition of fixed deadlines for completion of the negotiation process. Negotiation of contracts is a time-consuming process that requires the careful balancing of the needs and priorities of both parties. The complex nature of contract negotiations makes it very difficult to establish a one-size-fits-all time period for negotiation and submission of contracts for Commission approval. Some negotiations may move along quickly, while others may take significantly longer for any number of reasons. For example, in many cases the timing of negotiations depends upon the ability of both parties to devote the time necessary for completion of negotiations. SDG&E has found that sellers are often unable to devote adequate time to negotiations due to competing priorities, such as closing of other projects. Likewise, the utility sometimes has difficulty arranging negotiations around regulatory activities and other demands. It is always SDG&E's intent to finalize negotiations as soon as practicable. However, the negotiation process should be allowed to run its due course in order to achieve an agreement that is judicious and beneficial to both parties. Imposing a deadline on completion of this process would hinder both parties' ability to achieve this goal, and worse, could force parties to abandon a transaction that would otherwise prove beneficial to ratepayers, thereby hindering SDG&E's progress towards reaching the 20% target. SDG&E notes that challenges to achieving the 20% renewable resource mix by 2010



already exist, and therefore respectfully requests that the Commission not implement a policy that could further hamper SDG&E's efforts to meet this goal.

**6. Analysis and discussion of IPTs for 2006**

Please see the discussion in section II.

**7. Analysis of RPS-eligible renewable generation resources that are likely to be available by 2010 and could be acquired in 2006**

***a. Renewable potential in the SDG&E service area***

Within the SDG&E service area, existing renewable generation includes wind, solar (both small photovoltaic and larger scale solar thermal), landfill gas recovery systems, sewage treatment, biomass applications, and miscellaneous small hydro applications (*e.g.*, pipeline facilities, water treatment facilities, etc.). In March, 2006, SDG&E began receiving deliveries from the Kumeyaay 50 MW wind project. SDG&E also recently terminated its agreement with Envirepel, a planned 40 MW biomass facility, for failure of the project to meet its contractual milestones. However, SDG&E has recently signed a contract with Bull Moose for a 20 MW biomass facility to be located in SDG&E's service territory. SDG&E also expects to begin receiving deliveries from a 4.5 MW hydro project later this year.

There is additional wind generation potential along the eastern edge of the SDG&E service area but nearly all of this potential will require new transmission infrastructure. Based upon a combination of discussion with developers, offers received in response to SDG&E's 2004 RFO and studies performed to date on resource potential in San Diego County, SDG&E has assumed that as much as 500 MW of wind resources could be developed and integrated with the SDG&E system. SDG&E's 2004 Renewable

RFO results showed that another 6.4%<sup>9</sup> of new projects were offered that could have been added to achieving our 20% goal by 2010. These projects were located in the Crestwood/Boulevard area which is located in the eastern portion of San Diego County.

Results of SDG&E's LCBF analysis showed that four projects<sup>10</sup> that bid in this area all proposed to develop for costs that were economically attractive. However, it was determined that a new 138 kV transmission line would need to be built to accommodate the delivery from the proposed bidders at a cost of \$344 million. The cost of building the new 138 kV line for these projects, when added to the projects' bid prices, rendered the projects uneconomic. In addition, further development of this area appears problematic since the 138 kV line would only have accommodated the projects currently bid, with the next project requiring additional upgrades or construction of another transmission line in the area. In any event, when the cost of the new 138 kV transmission line was added to the overall cost of the bids, the projects were eliminated from further consideration in this RFO.

SDG&E's Electric & Gas Procurement Department is of the understanding, based upon publicly available information, that SDG&E's Transmission Planning group is in the process of pursuing alternative means of accessing the wind resources in the Eastern portion of San Diego County, and further that the development of transmission to interconnect potential wind generation areas in San Diego County is economically

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<sup>9/</sup> Confidential treatment of this commercially sensitive information was requested in SDG&E's motion to file under seal and for protective order filed concurrently with SDG&E's Plan on December 22, 2005.

<sup>10/</sup> Confidential treatment of this commercially sensitive information was requested in SDG&E's motion to file under seal and for protective order filed concurrently with SDG&E's Plan on December 22, 2005.

practical only if the new “Sunrise Powerlink” transmission line is built.<sup>11/</sup> Additionally, the potential exists for development of large scale solar resources in the Borrego area of San Diego County as well as wind resources in the La Rumorosa area of Baja California, Mexico. As with development of resources in the Crestwood/Boulevard area, development of the resource potential in Borrego and La Rumorosa will depend upon SDG&E’s ability to identify a cost-effective means of accessing these resources and delivering the energy to its load center.<sup>12/</sup>

***b. Renewable resource outlook for the Imperial Valley***

With the exception of wind and solar, the potential to develop new renewable resources within SDG&E’s service area is limited. However, Imperial Valley has an abundant potential for renewable resources. In 2005, SDG&E has signed contracts for potentially 900 MW of renewable energy and capacity in the Imperial Valley area.<sup>13/</sup> Recently, SDG&E has executed an agreement with Esmeralda for a 25 MW geothermal facility to be located in the Imperial Valley area.<sup>14/</sup> SDG&E also expects to seek other resources from the Imperial Valley area. Whether SDG&E is able to cost-effectively transmit renewable resources sufficient for the Company to achieve a cost-effective 20% renewable mix by 2010 will depend upon the ability of SDG&E and other entities to build additional transmission to access areas of renewable development potential.

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<sup>11/</sup> The Electric & Gas Procurement Department is considered a marketing entity under FERC 2004 Transmission rules and therefore is restricted from access to any non-public transmission data.

<sup>12/</sup> SDG&E’s ability to purchase from resources in Mexico will also be dependent upon approvals from both the Commission and CEC as to whether such resources will count towards RPS compliance.

<sup>13/</sup> Reference SDG&E agreement with Stirling Energy Systems Advice Letter 1727 E-A, approved by the Commission on December 15, 2005

<sup>14/</sup> The Esmeralda Agreement was file with the Commission for approval on May 22<sup>nd</sup> and will require Supplemental Energy Payments from the California Energy Commission. SDG&E expects to file its advice letter seeking approval of the contract with Bull Moose is being drafted in the near future.

Current estimates are that geothermal potential in the Imperial Valley area could reach 2300 MW or more.<sup>15/</sup> Today, only approximately 450 MW of geothermal resources are developed and on line, with another 215 MW facility (Cal Energy's Unit 6 facility) proposed. The development of these resources will depend in large part upon the ability of the developers to cost-effectively access other markets outside the Imperial Valley area in order to sell the output of future projects. In addition to the solar and geothermal potential, other resources such as wind and biomass also have development potential in the Imperial Valley area. The majority of these resources will likely require new transmission if they are to be able to cost-effectively supply energy markets outside of the Imperial Valley area.

As SDG&E's projections make clear, a substantial portion of SDG&E's planned additions will depend upon development of new potential resources. SDG&E's 2004 RFO indicates that **from 30% to as much as 40%**<sup>16/</sup> of future renewable potential as related to retail sales, may be contingent upon SDG&E's ability to economically access the resources located in the Imperial Valley area and the eastern region of San Diego County.

*c. Renewable Resource outlook for other areas*

SDG&E also recently received Commission approval of its contract with Pacific Wind for a 205 MW wind facility to be constructed in the Tehachapi area of California.

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<sup>15/</sup> See, CEC Final 2005 Integrated Energy Policy Report (November 21, 2005), p. 103.

<sup>16/</sup> Confidential treatment of this commercially sensitive information was requested in SDG&E's motion to file under seal and for protective order filed concurrently with SDG&E's Plan on December 22, 2005.

**8. Discussions of specific plans for procuring electricity from repowered wind projects.**

There are currently no repowered wind projects located in SDG&E's service area, but SDG&E will consider offers from repowered wind projects as part of any future solicitation. To date, SDG&E has received no proposals from repowered wind projects, either in response to SDG&E's renewable solicitations or on an unsolicited basis.

**9. Any other issues emerging from 2006 planning that may have an impact on SDG&E's ability to meet the 2010 goals.**

SDG&E has not identified any additional issues at this time.

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July 10, 2006

## **CERTIFICATE OF SERVICE**

I hereby certify that a copy of **COMPLIANCE FILING: UNREDACTED VERSION OF 2006 RENEWABLE PORTFOLIO STANDARD PROCUREMENT PLAN OF SAN DIEGO GAS & ELECTRIC COMPANY (U 902 E)** has been electronically mailed to each party of record on the service lists in R.06-05-027 and R.04-04-026. Any party on the service list who has not provided an electronic mail address was served by placing copies in properly addressed and sealed envelopes and depositing such envelopes in the United States Mail with first-class postage prepaid.

Copies were also sent via Federal Express to Commissioner Michael R. Peevey and the Assigned Administrative Law Judges Burton Mattson and Anne E. Simon.

Executed this 22<sup>nd</sup> day of May 2007 at San Diego, California

/s/ Jodi Ostrander  
Jodi Ostrander

**AFFIDAVIT**

I am an employee of the respondent corporation herein, and am authorized to provide this affidavit on its behalf. I hereby verify that the version of the **SAN DIEGO GAS & ELECTRIC COMPANY FURTHER AMENDED 2006 SHORT-TERM RENEWABLE PROCUREMENT PLAN** attached to the **COMPLIANCE FILING: UNREDACTED VERSION OF 2006 RENEWABLE PORTFOLIO STANDARD PROCUREMENT** is substantively identical to the version of the **SAN DIEGO GAS & ELECTRIC COMPANY FURTHER AMENDED 2006 SHORT-TERM RENEWABLE PROCUREMENT PLAN** filed on July 10, 2006.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Executed this 22<sup>nd</sup> day of May, 2007, at San Diego, California

A handwritten signature in black ink, appearing to read 'Vincent D. Bartolomei', with a long horizontal line extending to the right.

Vincent D. Bartolomei  
Former Manager – Contract Administration

## CALIFORNIA PUBLIC UTILITIES COMMISSION

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